

2004-06-02 17:51

7033850647

Burge

P 2

IN THE CLAIMS

Please amend the claims as follows:

1. (currently amended) An apparatus, comprising:

a printed circuit board having a first surface and a mounting hole formed therethrough;

a solder ring disposed upon the first surface of the printed circuit board and surrounding the mounting hole formed through the first surface of the printed circuit board; and

a ferrule having a body with a channel formed therethrough from a first end of the body having a capture extension, to a second end of the body having a soldering extension in the form of a solder flange providing a soldering surface to solder the ferrule to the solder ring that is used to solder the ferrule to the printed circuit board at a location overlying the solder ring where the channel formed through the ferrule and the mounting hole formed through the first surface of the printed circuit board align.

2. (original) The apparatus of claim 1, wherein the ferrule is substantially cylindrical in shape.

3. (canceled)

4. (original) The apparatus of claim 1, wherein the capture extension is used to hold a screw protruding through the channel formed through the ferrule captive to the ferrule.

2004-06-02 17:51

7033850647

Burge P 3

5. (original) The apparatus of claim 4, wherein the capture extension is a capture flange surrounding the channel formed through the ferrule at the first end.

6. (original) The apparatus of claim 4, wherein the screw is comprised of a head installed within an overmold having at least one extension that engages the capture extension, and that cooperates with the capture extension to hold the screw captive to the ferrule.

7. (original) The apparatus of claim 4, wherein the ferrule is used in cooperation with the screw protruding through both the channel formed through the ferrule and the mounting hole formed through the printed circuit board to mount the printed circuit board.

8. (original) The apparatus of claim 7, wherein a spring is positioned within the channel formed through the ferrule to bias the screw into a predetermined position when the screw is not being used to mount the printed circuit board.

9. (currently amended) An apparatus, comprising:

a ferrule having a body with a channel formed therethrough from a first end of the body having a capture extension, to a second end of the body having a soldering extension in the form of a solder flange formed thereon prior to the coupling of the ferrule to a printed circuit board providing a soldering surface to solder the ferrule to a first surface of a printed circuit board at a location that aligns the channel formed through the ferrule with a mounting hole formed through the first surface; and

a screw protruding through the channel formed through the ferrule and held captive to the ferrule by the capture extension.

2004-06-02 17:51

7033850647

Burge

P 4

10. (original) The apparatus of claim 9, wherein the ferrule is substantially cylindrical in shape.
11. (original) The apparatus of claim 9, wherein the capture extension is a capture flange surrounding the channel formed through the ferrule at the first end.
12. (original) The apparatus of claim 9, wherein the screw is comprised of a head installed within an overmold having at least one extension that engages the capture extension, and that cooperates with the capture extension to hold the screw captive to the ferrule.
13. (original) The apparatus of claim 9, wherein the soldering extension is used to solder the ferrule to the surface of a printed circuit board at a location where the channel formed through the ferrule aligns with a mounting hole formed through the printed circuit board.
14. (cancelled)
15. (original) The apparatus of claim 13, wherein the ferrule is used in cooperation with the screw protruding through both the channel formed through the ferrule and the mounting hole formed through the printed circuit board to mount the printed circuit board.

2004-06-02 17:52

16. (original) The apparatus of claim 15, wherein a spring is positioned within the channel formed through the ferrule to bias the screw into a predetermined position when the screw is not being used to mount the printed circuit board.

17. (currently amended) A method comprising:

soldering a ferrule, having a body with a channel formed therethrough from a first end of the body having a capture extension to a second end of the body having a soldering extension in the form of a solder flange providing a soldering surface, to a first surface of a printed circuit board by the solder flange of the ferrule at a location on the first surface where the channel formed through the ferrule aligns with a mounting hole formed through the first surface of the printed circuit board;

inserting a screw through the channel formed through the ferrule; and
using the capture extension to hold the screw captive to the ferrule.

18. (original) The method of claim 17, wherein soldering the ferrule comprises using a surface mount populating technique to solder the soldering extension to the printed circuit board.

19. (cancelled)

20. (original) The method of claim 17, further comprising using the screw protruding through both the channel formed through the ferrule and the mounting hole formed through the printed circuit board to mount the printed circuit board.

2004-06-02 17:52

7033850647

Burge

P 6/10

21. (original) The method of claim 20, further comprising positioning a spring within the channel formed through the ferrule to bias the screw into a predetermined position when the screw is not being used to mount the printed circuit board.

22. (original) The method of claim 17, wherein the screw is comprised of a head installed within an overmold having at least one extension that engages the capture extension, and that cooperates with the capture extension to hold the screw captive to the ferrule.